USSR/Mineral Industries
Freezing

"Preventing the Freezing Together of Mineral Rock
During its Transportation From Strip Mines," S. I.
Popov, Magnitogorsk Mining Metal Inst, 22 pp

"Ugol!" No 11 (272)

Discusses various methods of dealing with problem:
desiccation, mechanical isolation, salting, oiling
and heating.

POPOV. S.I.

Mbr., Magnitogorsk Mining Metal Inst., -cl948-c49-.

"Preventing the Freezing +ogether of Mineral Rock during its Transportation from Strip

Mines, "Ugol', No. 11, 1948;

"A Slide in the Magnitogorsk Pit," Cor. Zhur., No. 4, 1949.

FOFOV, S.I.

The lammittee on stall. Inter-just ten lamin, of Monters (ESE) in the limite of stance and inventions much more than the following retention where joyu so delical tiffe banks, and textimise have been number to the competition for constant the years 1918 must 1979. Governage Kultura, Manage to Manage. Sept. 1999

Title of Work

Party.

Zurkov, P.E.

Karpov, A.F. Nikol'skiy, N.A. Shitov, I.S. Bulychev, V.V. Ogiyovskiy, V. M.

Ponov, S.I.

"The Working of Iron Ores by the Open Pit Method" Golovin, G.M.

Boundarabed by

Magnitogorsk Mining Metallurgical Institute imeni G.I. Nosov

Treyvus, M.N. Shtremt, A.A. Trofimov, G.V.

Pushkarev, G.I. Markman, N.Ye.

Tikhovidov, I.I.

Sor W. BURDA, 7 July 1954

POPOV, S. I.

EULYCHEV, V.V.; GOLOVIN, G.M.; ZURKOV, P.E.; KARPOV, A.F.; NIKOL'SKIY, N.A.; OGIYEVSKIY, V.M.; POPOV, S.I.; TRETVUS, M.N.;
SHITOV, I.S.; SHITEMI, A.A.; ZURKOV, P.E., Kandidat tekhnicheskikh nauk, retsenzent; KOMPANEYETS, V.P., kandidat tekhnicheskikh nauk, retsenzent; VAGANOV, P.V., kandidat tekhnicheskikh
nauk, retsenzent; IKONNIKOV, A.N., kandidat tekhnicheskikh nauk,
retsenzent; SAUKHAI, I.G., kandidat tekhnicheskikh nauk,
zent; NIKOLAYEV, S.I., retsenzent.

[Mining iron ore by the opencast method] Rasrabotka shelesnykh rud otkrytym sposobom. Pod. obshchei red. P.E.Zurkova. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953. 632 p.

(Iron mines and mining)

1. POPOV, S. I.

- 2. USSR (600)
- 4. Strip Mining
- 7. Review of P. YE. Zurkov's book "Terrace operations in strip mines." S. L. Popov, Ugol', 28, No. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

L 08035-67 EMT(m)/EMP(j) RM  ACC NR: AP7001654 SOURCE CODE: UR/0409/66/000/002/025	
POPOV. S. I., KURDYUMOVA, T. N., DOKUNIKHIN, N. S., Scientific Research	_29
Institute of Organic Intermediates and Dyes, Moscow (Nauchno-1991edovatel skiy	B
institut organicheskikh polupoduktov i krasiteley)	
"Studies of Anthrapyridone. I. Interaction Between Anthrapyridone Derivatives and Phosphorus Pontachloride"	
Riga. Khimiya Geterotsiklicheskikh Soyedineniy (Chemistry of Heterocyclic Compounds), No 2, 1966, pp 254-258	
Abstract: It was established that, the reaction between phosphorus pentachlorid and N-methylanthrapyridene commences not only at 180°C but also at lower temperatures; in chlorobenzene at 130°C a crystalline substance which analysis found to correspond to the product of the association of a molecule of phosphorus pentachloride to a molecule of N-methylanthrapyridene, could be isolated; this substance was structurally identified as 2-tetrachlorophe sphyoxy-3-methyl-7-oxo-7N-dibenz[f. ij] isoquinolinium chloride and it readily reacts with primary amines, forming the corresponding 2-imines of N-methylanthrapyridene. By contrast, at 180°C the reaction between phosphorus pentachloride and N-methylanthrapyridene results in the formation of 2-chloroanthrapyridine.  [JPRS: 36.455]	
TOPIC TAGS: phosphorus chloride, heterocyclic base compound, amine SUB CODE: 07 / SUBM DATE: 10Nov64 / ORIG REF: 003 / OTH REF: 006	
Card 1/1 mc UDC: 547.837.6+542.944.4/542.958.3	117

FISENKO, Georgiy Lavrent'yevich; POFOV, S.I., prof., retsenzen [Stability of walls of open-pit mines and dump piles]

Ustoichivost' bortov kar'erov i otvalov. 2. izd., perer. i dop. Moskva, Nedra, 1965. 377 p. (MIRA 18:7)

POPOV, S.I.

Selective separation of copper and zinc minerals by return flotation. TSvet. met. 38 no.2:92-93 F 165.

(MIRA 18:3)

POPOV, S.I., doktor tekhn.nauk; POSOKHOV, Yu.N., kand.tekhn.nauk; KARPOV, A.P., gornyy inzh.

Basic problems concerning open pit mining of thick steeply pitchine deposits. Gor.zhur. no.12:9-13 D \*64.

(MIRA 18:1)

- 1. Magnitogorskiy gornometallurgicheskiy institut (for Posokhov).
- 2. Uchalinskiy rudnik (for Karpov).

MEL'NIKOV, N.V.; SLEDZYUK, P.Ye.; ZAV'YALOV, S.S.; BUNIN, A.I.;

VASIL'YEV, M.V.; NOVOZHILOV, M.G.; ZURKOV, P.E.; IL'IN, M.V.;

VILESOV, G.I.; POPOV, S.I.; SANDRIGAYLO, N.F.; SHILIN, A.N.;

ZUERILOV, L.Ye.; TSIMBALENKO, L.N.; VLOKH, N.P.; OMEL'CHENKO, A.N.

Mikhail Lazarevich Rudakov, 1912-1964; an obituary. Gor. zhur. no.9:78 S'64. (MIRA 17:12)

PANYUKOV, P.N., doktor geol.-mineral. nauk, prof.; POPOV, S.I., doktor tekhn. nauk, prof.

Readers' response to the article "Constructing the expected surface of sliding according to stresses in open pit sides". Ugol' 39 no.10: 50-51 0 '64. (MIRA 17:12)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki (for Panyukov). 2. Magnitogorskiy gornometallurgicheskiy institut (for Popov).

POPOV, S.I., inzh.

Regulated drive with a collector type a.c. motor-amplifier.
Trudy MEI no.38:97-110 '62. (MIRA 17:2)

KULIKOV, L.D.; POPOV, S.I.; KHOMULLO, N.K.

Technology of treating impregnated sulfide ores from the Levikha and Lomovo deposits. TSvet. met. 36 no.12:72-73 D '63. (MIRA 17:2)

THE RESERVE OF THE PROPERTY OF

MELEKHOVA, Ye.L.; KULIKOV, L.D.; POPOV, S.I.; KHOMULLO, N.K. Comparative testing of "Mekhanobr" and "Sikhali" flotation machines

at the Kirovgrad plant. TSvet. met. 36 no.9:14-16 S '63. (MIRA 16:10)

POPOV, S.I., inzh.; FEDOROV, S.P., inzh.

Experience in the construction and installation of closed water disposal conduits from standardized precast reinforced concrete elements in the "Lithuanian State Regional Electric Power Plant." Energ. stroi. no.31:12-17 162.

(MIRA 16:7)

1. Rizhskoye otdeleniye Vsesoyuznogo gosudarstvennogo proyektnogo instituta stroitelistva elektrostantsiy.

(Precast concrete construction)

(Lithuania—Electric power plants)

KULIKOV, L.D.; BOLKOV, D.A.; POPOV, S.I.; KHOMULLO, N.K.

Selecting a flow sheet for the dressing of Gay deposit cres.

TSvet. met. 36 no.6:1-2 Je '63. (MIRA 16:7)

(Cay Region—Nonferrous metals)

(Ore dressing)

32 no.9:3022-3025 S 162.

Reduction hydrolysis of 6-arylamincanthrapyridones. Zhur.co.khim.

VASIL'YEV, M.V., gornyy inzh.; KOTOV, V.N., gornyy inzh.; RUSSKIY, I.I., gornyy inzh.; KHOKHRYAKOV, V.S., gornyy inzh.; POPOV, S.I., gornyy inzh.; SHILIN, A.N., gornyy inzh.; TARAN, M.I., gornyy inzh.; SHKUTA, E.I., gornyy inzh.

"Strip mining" by M.G.Novozhilov. Reviewed by M.V.Vasil'ev and others. Gor. zhur. no.7:79-80 Jl '61. (MIRA 15:2)

(Strip mining)

(Novozhilov, M.G.)

POPOV, S.I., inzh.

Organization of the subsurface intake of water for operation of the Lithuanian State Regional Electric Power Station. Energ. stroi. no.27:15-20 '62. (MIRA 15:9)

1. Rizhskoye otdeleniye Vsesoyuznogo gosudarstvennogo proyektnogo instituta "Teploelektroproyekt".

(Lithuania-Electric power plants-Water supply)

POPOV, S.I., gornyy inzh.; DUDUSHKINA, K.I., inzh. geolog.

Effect of time on the stability of the benches and sides of open-git mines. Gor.zhur. no.4:38-40 Ap '62. (MIFA 15:4)

(Strip mining) (Weathering)

```
"Strip mine dumps" by P.E.Zhurkov and G.V.Trofimov. Reviewed by S.I.Popov and others. Gor. zhur. no.7:20 Jl '61.

1. Magnitogorskiy gorno-metallurgidheskiy institut (for Popov). 2. Nachal'nik Gornogo upravleniya Magnitogorskogo metallurgicheskogo kombinata (for Kotov)

(Strip mining)

(Zurkov, P.E.)

Trofimov, G.V.)
```

DUDUSHKINA, K.I., inzh.; POPOV, S.I., inzh.

Stability of open-pit sides. Bezop.truda v prom. 6 no.2:14(MIRA 15:2)
16 F '62.

(Mining engineering)

KULIKOV, L.D.; POPOV, S.I.

Increasing the wear resistance of send pump parts by rubber (MIRA 14:8) coating. Obog. rud 4 no.5:34 '59.

l. Kirovogradskiy medeplavil'nyy kombinat.
(Mechanical wear) (Rubber coatings)

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NIKOLENKO, L.N.; POPOV, S.I.

Aromatic compounds with a long side chain. Part 8: Reactions of alkyl-(4-chlorophenyl) ketones with phosphorus pentachloride. (MIRA 15:2) Zhur. ob. khim. 32 no.1:29-32 Ja 162.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

(Ketones)

(Phosphorus chloride)

KULESHOV, Nikolay Andreyevich; NOVOZHILOV, M.G., prof., doktor tekhn.nauk, red.; ZURKOV, P.E., prof., doktor tekhn.nauk, red.; POPOV, S.I., dotsent, kand.tekhm.nauk, red.; DIDKOVSKIY, D.Z., inzh., otv.red.; KAUFMAN, A.M., red.izd-va; IL'INSKAYA, G.M., tekhn.red.

[Open-pit mining] Otkrytye gornye raboty. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 327 p. (MIRA 14:6)

(Strip mining)

CIA-RDP86-00513R0013423 APPROVED FOR RELEASE: Tuesday, August 01, 2000

S/064/60/000/004/012/021/XX 3013/B063

AUTHORS:

Popov, S. I., Shashkov, V. I., Bulatov, V. D. (Deceased)

TITLE:

Use of the Flotation Process in the Extraction of Selenium From Selenium-poor Slimes Formed in the Production of

Sulfuric Acid

PERIODICAL: Khimicheskaya promyshlennost', 1960, No. 4, pp. 38-41

TEXT: The authors have examined the possibility of using the flotation process in extracting selenium from selenium-poor slimes formed in the production of sulfuric acid. A study of the distribution of selenium in the products of the contact system has shown that up to 42% of the initial selenium content of the raw material is concentrated in selenium-poor slimes from the washing department (promyvnoye otdeleniye). There is a considerable loss of selenium in solid residues (ashes, dust), which amounts to more than 21%. The authors have worked out a scheme for the extraction of selenium from slimes with a selenium content of 0.5 - 4.0%, making use of the flotability of selenium with petroleum,

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CIA-RDP86-00513R0013423

Use of the Flotation Process in the Extraction of Selenium From Selenium-poor Slimes Formed in the Production of Sulfuric Acid

S/064/60/000/004/012/G21/XX B013/B063

alcohol, etc. (Refs. 4,5). Slimes from refrigerators of the washing department have been studied. The selenium content varied from 0.6 to 2%. The authors found that selenium is concentrated chiefly in fine fractions. The presence of highly disperse selenium particles (less than  $5\mu$ ) and the pulp components containing them complicate the flotation process. The slime particles were enlarged by heating the pulp. Preliminary studies have shown that the extraction of selenium can be increased and the quality of the selenium concentrate improved by heating the pulp to 902100°C. It is noted that the density of the pulp hardly increases the extraction of selenium but deteriorates the quality of the concentrate. A pulp density of 23 - 25% is described as being an optimum. Flotation was found to be intensified by an increase in the acidity of the pulp. The concentration of sulfuric acid in the pulp must not be lower than 20%. Petroleum, butyl xanthate, tall oil, oleic acid (collectors), and various flotation oils (foamers) were tested for the purpose of studying the effect of collectors and foamers. Tests made according to a

Card 2/3

Use of the Flotation Process in the Extraction of Selenium From Selenium-poor Slimes Formed in the Production of Sulfuric Acid

S/064/60/000/004/012/021/XX B013/B063

continuous flotation scheme have shown that no reagents are required for selenium flotation in electrolytes. The quality of the selenium concentrate can be improved by double purification. The final results indicate that extraction of selenium without reagents is more effective than extraction with reagents. The first fractions of the selenium concentrate have a higher selenium concentration than the following fractions. Flotation is most effective during the first 6-10 min. The flotation plant developed according to the experiments described here has recently been put in operation, and the results obtained confirm the results of laboratory tests. There are 5 figures, 4 tables, and 5 Soviet references.

Card 3/3

POPOV, S.I.; SHASHKOV, V.I.; BULATOV, V.D. [deceased]

Flotation recovery of selanium from poor slurries produced in the manufacture of sulfuric acid. Khim.prom. no.4:302-305 Je 60. (MIRA 13:8) (Selenium)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

POPOV, S. I., Dr. Tech Sci — (dias) "Stability of the Edges of Open Mining Pits," Moscow, 1960, 46 pp, 200 copies (Moscow Mining Institute im I. V. Stalin) (KL, 49/60, 126)

e ir sagalija storeg i katologija je ir primo Linera Ogodka propincija 🌉 sastigani sa sijako obe

SIROTIN, A.A., kand, tekhn. nauk, dotsent; YELISEYEV, V.A., inzh.; POPOV, S.I., inzh. New electric drive for internal grinding machines. Trudy MEI

(MIRA 12:5) no.30:239-252 158.

1. Moskovskiy ordena Lenima energeticheskiy institut, Kafedra elektrooborudovaniya promyshlennykh predpriyatiy. (Grinding machines-Electric driving)

```
Results obtained in reducing the censumption of reagents at the
Kirevgrad Ore Dressing Flant. TSvet. met. 31 ne.11:1-8 N '58.

(MIRA 11:12)

1.Kirevgradskiy medeplavil'nyy kembinat.

(Kirevgrad-Ore dressing)

(Chemical tests and reagents)
```

SCV/136-57-31 1/23

AUTHORS:

POTONA S. I

TITLE:

Results of Reducing Reagent Consumption at the Kirovgrad Beneficiation Works (Resultary smisherity. rashhoda reagentov no Miroveredekcy obecatitel nov

PERIODICAL: Tsvetnyye Metally, 1958, Nr 11, pp 1-8 (USSR)

ABSTRACT:

At the Kirovgred Reneficiation Works reacents account for 21% of the total ore-treatment costs. The authors note that many articles on the reduction of reagent consumptions have been published recently and that an Consumptions have been published recently and that all union conference has been convened by the All-Union conference has been convened by the Tsentral nove providency MTO tovethey-metallurgy) (Central Board of the RTO for non-ferrous metallurgy) on this subject. With the object of fulfilling the magnificant of the statement of the subject of fulfilling the resolutions of the Ill-Union conference on respent conony held at the end of 1957, the following at the Miroy red Works started experiments in this live scien: L.D. Kulikov, V.M. Gernsov, M.D. Anisimov, N.K. Khorenllo, A.T. Galust'yan and R.I. Zelenina (from the works) and S.I.Popov, D.L.Bolwov and V.V.Morez (of the meserrob

Jura 1/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013423

SOV/136-50-11-1/01

Results of Reducing Reagent Consumption at the Kirovgrad Beneficiation Works

group). The authors describe the results obtained. Two types of ore are treated at the works: an ingrained copper-zinc-pyrite (12-24%S) and a uniform sulphide (44-46% S) covering the composition range (table 1) 0.84-1.70% Cu, 0.50-5.62% Zn. The first type are treated by a collective-selective flotation flowsheet (fig.1) with two stage crushing; the second by simple copper flotation after grinding to 90-92% -0.074 mm. Laboratory experiments on the effectiveness of various collectors on the flotation of Kirovgrad sulphides were carried out with butyl and ethyl xanthates and mixtures of them. In February 1958 production tests with the two collectors for the flotation of copper, zinc and iron minerals showed that the optimal conditions were different for different minerals. In the second stage, laboratory tests on xanthate consumptions in the recovery of copper (fig.2) zinc (fig.3) and sulphide were followed by the adoption

Card 2/3

SOV/136-59-11-1/21

Results of Reducing Reagent Consumption at the Kircvgrad Beneficiation Works

of a new practice in March 1958. This has reduced butyl-xanthate and flotation—cil consumptions by 52-80 and 59.50% respectively. The authors show that reductions in collector and foaming—agent consumptions led to savings in other reagents and gave better concentrates. There are 4 figures and 8 tables.

ASSOCIATION: Kirovgradskiy medeplavil: nyy kombinat (Kirovgrad Copper-smelting Combine)

Card 3/3

15-57-3-3960

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,

p 206 (USSR)

AUTHOR:

Popov, S. I.

TITLE:

A Nomogram for Constructing a Profile of the Border of an Open-Pit Mine in a Complex Geological Environment (Nomogramma dlya postroyeniya profilya borta kar'yera

v slozhnykh geologicheskikh usloviyakh)

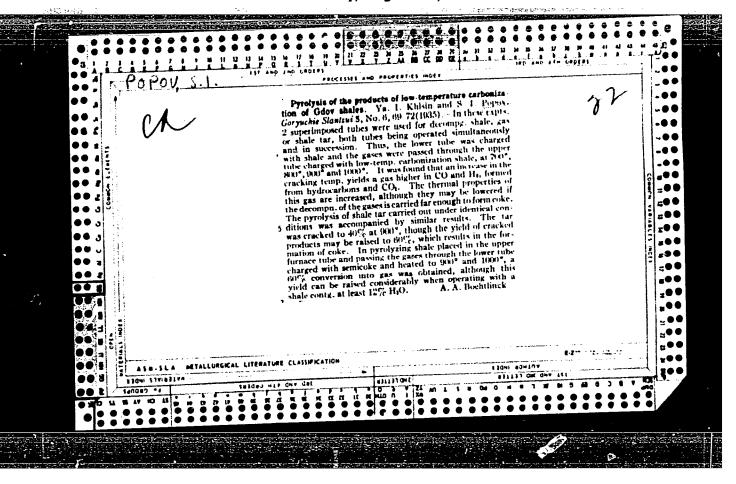
PERIODICAL: Sb. nauch. tr. Magnitogor. gorno-metallurg. in-ta, 1955,

Nr 9, pp 89-98

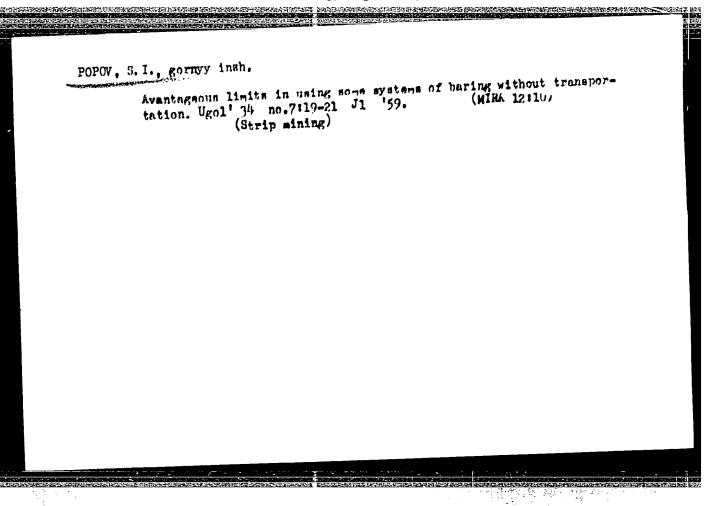
ABSTRACT:

Bibliographic entry

Card 1/1



## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342



VISHNYAKOV, V.F., POPOV, S.I.; NIKOLAYEV, P.P.; NIKITIN, B.G., veter, vrach.; GRUZDEVA, Ye.K., veter. vrach; SMIRNOV, A.M., prof.

Preparation and application of the gastric juice of horses. (MIRA 17:1) Veterinarila 40 no.5:44-47 My '63.

1. Direktor Gosudarstvennogo plemennogo zavoda "Lesnoye",
Leningradskoy oblasti (for Vishnyakov). 2. Glavnyy veterinarnyy
vrach Gosudarstvennogo plemennogo zavoda "Lesnoye" Leningradskoy oblasti (for Popov). 3. Nachal'nik tsekha po proizvodstvu
natural'nogo zheludochnogo soka loshadey Gosudarstvennogo
plemennogo zavoda "Lesnoye" Leningradskoy oblasti (for Nikolayev).

4. Gosudarstvennyy plemennoy zavod "Lesnoye" Leningradskoy oblasti
(for Nikitin, Gruzdeva). 4. Leningradskiy veterinarnyy institut
(for Smirnov).

\$/058/62/000/010/061/093 A061/A101

17.9500

Popov, S. K.

AUTHOR: TITLE:

Growth and some uses of valuable corundum crystals

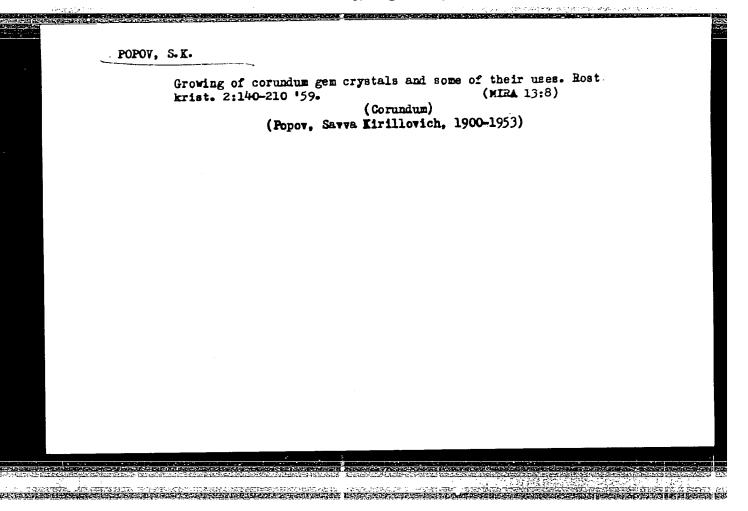
PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1962, 13, abstract 10E99 (In collection: "Rost kristallov. T. 2.", Moscow, AN SSSR, 1959,

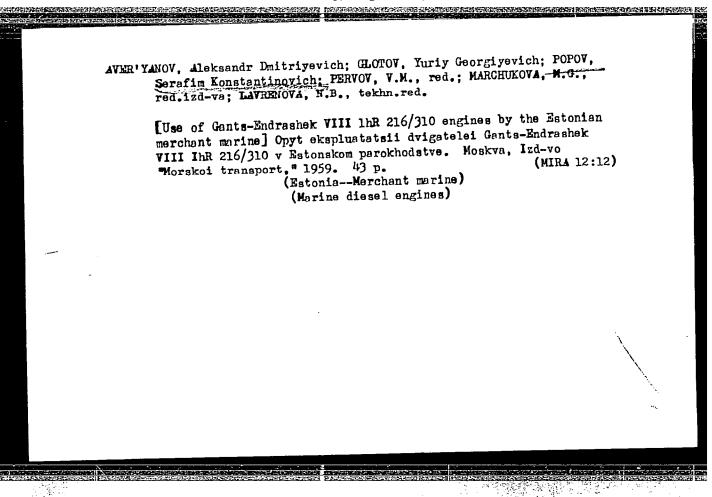
140 - 210)

A technique for growing corundum single crystals in bulbs and rods TEXT: is described together with an improved, partly automated industrial apparatus. Complex problems, having to do with the very precise charge supply and a high uniformity in heating the growing crystals, are solved in connection with the crystallization of fine rods. Methods are worked out for the diamondless corundum polishing (by the flame process), and for the rod bending. An apparatus has been devised for the routine dispatching of these operations. A new use has been found for corundum rods to serve as thread guides in the synthetic fiber industry.

[Abstracter's note: Complete translation]

Card 1/1





POFOV, Sl., inzh.

Radioisotopes in the use of cutting instruments. Priroda Bulg 10 no.6:31-27 '61.

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

L 086h1-67 EWP(c)/EWP(k)/EWP(h)/EWP(1)/EWP(v)/EWP(t)/ETIIJF(c) RII/JD ACC NR. AP6011868 SOURCE CODE: BU/0005/65/000/011/0501/0503 AUTHOR: Popov, Slavcho (Engineer); Boev, Dobrin (Engineer); Avramov, Dimitur 47 (Engineer) 45 ORG: none TITLE: Research on protective lead blocks produced at the Medical Instruments and Equipment Plant in Sofia . SOURCE: Mashinostroene, no. 11, 1965, 501-503 TOPIC TAGS; lead, nuclear protective equipment, radiation protection, nonmilitary nuclear application, medical equipment ABSTRACT: The properties of protective lead blocks produced at the Medical Instruments and Equipment Plant (Mediko-instrumentalniya i aparaturen zavod) in Sofia were studied for the purpose of improving the manufacturing technology of the blocks for series production. The measurement were made in accordance with standards developed by the Council for Mutual Economic Assistance in the Utilization of Atomic Energy for Peaceful Purposes (SIV). The measurement results show that 1) the specific gravity of the lead blocks is 10.8 g/cm<sup>3</sup> within an accuracy of † 0.9% and satisfies

the standard requirements, 2) the Brinell hardness varies from 10.5 to 11.5 kg/mm<sup>2</sup>, and 3) the deviation from homogeneity is smaller than the permissible deviation of

Card 1/2

VDC: 614.898

an ong incomp qualit	gineer, of the Physics Departs	e investigation was designed be ment. It is noted that the SI e to develop them further in or being exported to the member ble.	rder to improve the
Sub Co	DE: 18,06,07/ SUBM DATE: no	ne/ SOV REF: 004	
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	2/2 n le		

B/005/62/000/009/001/001 D267/D307

AUTHORS:

Slivkov, K., Popov, S.L. and Sedloev, I., Engineers

A new method of metallographic investigation of

TITIE:

metallic coatings

PERIODICAL:

Mashinostroyene, no. 9, 1962, 28-32

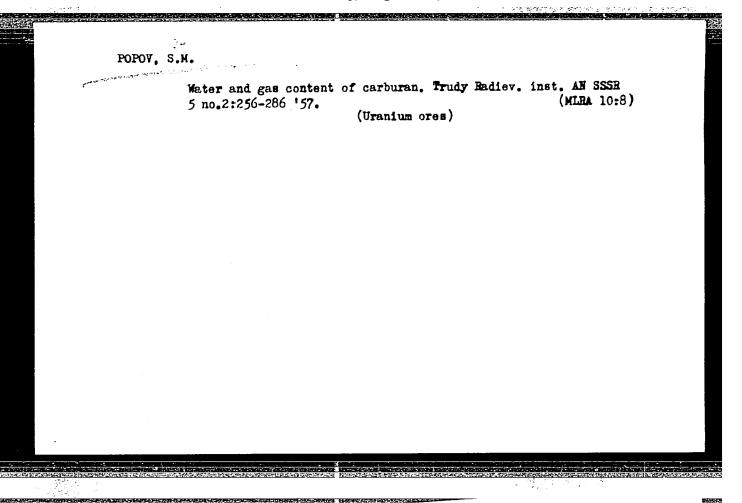
To do away with some disadvantages of the skewmicrosection method of investigating metallic coatings, the NIThis developed a new method, called the method of micro-sections, along spherical section. The base metal (e.g. sheet iron with maximum spherical section. thickness of 1 mm) is first shaped spherically by die-stamping and the metallic coating is applied: the radius of curvature is determined with a spherometer or another indicator: in some cases the specimen is provided with another metallic coating characterized by a higher resistance to wear (to prevent the rounding-off of edges): the specimen is then embedded in a synthetic resin (epoxide resin 1200 with 6% of ethylenediamine as hardener), and is finally subjected to grinding and polishing. After suitable etching it is

Card 1/2

PCPCV, S. M.

Popov, S. M. - "On the new impulse hook-up in magnetic television scanning," Trudy Studench. nauch.-tekhn. c-va (Mosk. energet. in-t im. Molotova), Issue 2, 1948, 1948, p. 20-23

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)



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CIA-RDP86-00513R0013423

Popov, S.M.

133-10-22/26

Ioffe, M. M. and Popov, S. M. Engineers.

An Increase of Productivity of Vacuum Furnaces for Annealing of the Transformer Steel. (Povysheniye Proizvod-itel nosti Vakuumnykh Pechey Dlya Otzhiga Transform-AUTHOR: TITIE:

atornoy Stali).

PERIODICAL: Stal', 1957, No. 10, p. 948. ABSTRACT: Modification of vacuo-annealing practice on the Zaporozhstal. Works is described. With normal practice the total duration of annealing treatment for transformer the total duration of amedians of heating to soak-steel was 130-140 hours, consisting of heating to soaksteel was 130-140 hours, consisting of heating to soaking temperature 24-25 hours, soaking 24 hours and cooling to 600°C under vacuo - 80-90 hours. The cooling procedure was modified as follows: cooling to 950°C under vacuo, the breaking vacuo with MX gas (10% CO<sub>2</sub>, 12% CO, 6% H<sub>2</sub>, the lost of the hot bell by a cool one rest nitrogen), replacing of the hot bell by a cool one (about 200°C, in individual cases 400-500°C) and the formation of secondary vacuo and cooling to 600°C. In this way the duration of cooling was reduced from 85 hours this way the duration of cooling was reduced from 85 hours this way the duration of cooling was reduced from 85 hours to 47-50 hours. Moreover, utilising the heat of the bell for the heating of the next charge shortens the heating time by about 5 hours and gives a power economy of

148 kW h/ton. The metal obtained with the new practice Card 1/2 had similar electromagnetic properties as that annealed

SOV/94-58-8-8/22

AUTHORS: Tarasevich, N. I., Ioffe, M. M., Popov, S.M., Veklich, M. I., Drausal', A. V., Dikovskiy, A.M., Merkulov, V. G., and Arno, B. E.

Increasing the Output of Hood-type Electric Furnaces with Economy of Electric Power (Ekonomiya elektroenergii TITLE:

i uvelicheniye proizvoditel nosti kolpakovykh

elektropechey)

PERIODICAL: Promyshlennaya Energetika, 1958 Nr. 8, pp 20-21 (USBR)

ABSTRACT: This suggestion was awarded third prize in an All-Union Power Economy Competition. In the manufacture of transformer steel high temperature annealing is carried out under vacuum at a temperature of 1180°C. operation is carried out in special vacuum hood-type electric furnaces. The sheet steel in the furnace is protected by muffles which in their turn are covered by the hood which contains electric heaters and water-cooled vacuum seal. The annealing period includes a cooling time which reduces the output of the furnace and increases the power output because the heat in the hood is wasted. The furnaces were reconstructed in such a way that when the heating period is over the hot hood is quickly

Card 1/2

CIA-RDP86-00513R0013423 APPROVED FOR RELEASE: Tuesday, August 01, 2000

· Popor, S.M.

Popov, S. M. On the cylindrical buckling of plates beyond the elastic limit. Akad. Nauk SSSR. Prikl. Mat. Meh. No. 5 14, 543-552 (1950). (Russian)

The paper presents an exact formulation of the cylindrical buckling of a long, thin, rectangular plate under uniform compression. A. A. Hyushin has determined approximate

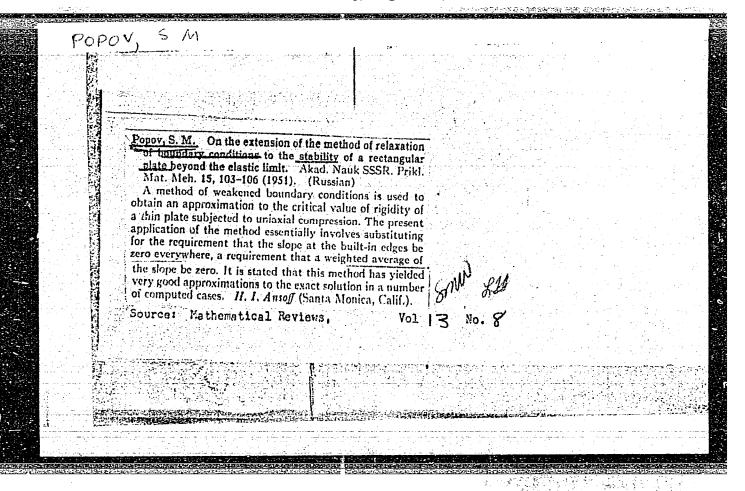
lower and upper bounds of the relative thickness of the plastic layer in the middle of the plate and concluded that the unloading buckling load will differ little from the value obtained from the approximate solution. The present paper shows, that although Hyushin's conclusions were not justified on this basis, the approximate solution does indeed yield a good approximation to the critical load. The author also determines the boundary between the plastic and the elastic-plastic zones of the plate, as well as the relative thickness of the plastic zone in the middle of the plate.

H. I. Ansoff (Santa Monica, Calif.).

Inst, Mechanics, Acad. Sci. USSR

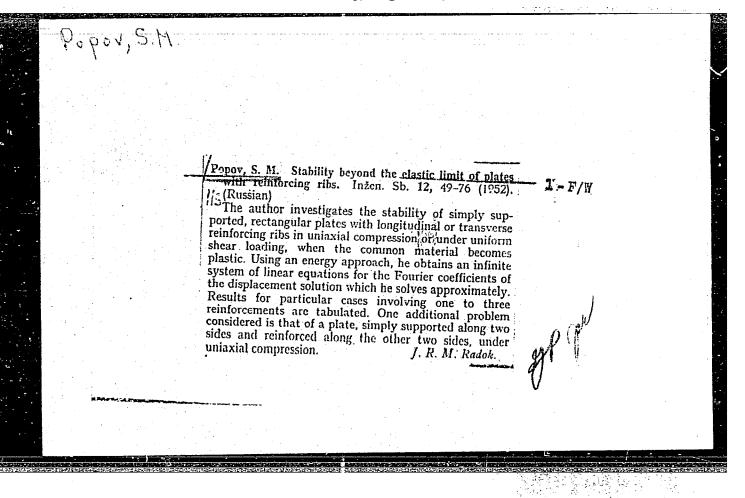
Source: Mathematical Reviews.

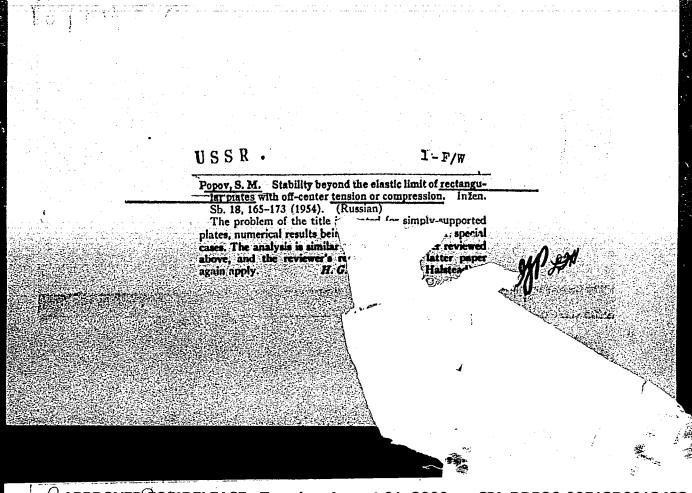
101 13 Not



Popov, S. M. Stability of simply supported plates beyond the clastic limit. Inžen. Sb. 9, 65-98 (1951). (Russian) MSBased on the theory of small elasto-plastic deformations, the author establishes the stability equation for rectangular plates and the corresponding energy expression. Special cases studied by energy methods comprise uniaxial and biaxial compression. The case of uniaxial compression of plates with simply supported edges at right angles to the applied load and various edge conditions along the other two sides is studied by use of the equilibrium equations. Extensive numerical results are given in the form of tables and curves.

J. R. M. Radok (Providence, R.I.).





PPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013423

TOV/12-4-27 301/¢000

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hatenerry shornik, t. 27 (incline ring Collection, 701, 27) Boscov, Ind-vo M EXE, 1960. 210 p. 2,000 copies printed.

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honsoring Agracys Abadeniya sauk fitifit. Ordalaniya takhnicheakikh nauk.

dory, Ed.: A. A. D.'ymakinj Kai: V. N. Arkmdovj Ed. of Publishing Kome V.M. Akkmidvyj Buch: Ed.: A.F. Ousew.

TRACE: The book consists of 24 articles on such problems as ving theory, supercute flow thory of balls, stability placelitity admitted a destricty, the beauty of thin places and abulls, and reform expects of applied submartices. No personalties are motioned, hebrances according nots of PROPOZI: The book is intended for engineers, applied physicists, and applied settlements.

The behavior of Complex Eigen Values in the Problem of bilotis, V.V. Application of Bratistical bethols for the Brilimition of the Strength of Bructures Sibjected to beissic Porces On the Probles of Displacing das by bater. Stability of an Elastic Dean Vith Mighd Spendids, A.R. Norther, A.A.

Sarman, P.R. Strains in a Physical Politics Makened by Miligrical and Circular Solas. Hypanin, A.B., Enstoylastic Stability of Otructure Containing. Bod Electics burders I.S. On the beating of a Closed Cylindrical Scali-a Concentration Purce tabelaniser, V.G. Stability of Structural Role layend Ristic first This Paus brood Shiney, Th.S. Vibrations of an Elastic String POTOTA S.K., Stability of Circular

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SOURCE CODE: UR/3095/66/035/000/0031/0041

AUTHORS: Postnova, I. D.; Popov, S. M. (deceased)

ORG: none

TITLE: Fluctuations of heat balance in the tropical zone of the Atlantic Ocean (from data of the 12th voyage of the Russian research ship Mikhail Lomonosov)

SOURCE: AN UkrSSR. Morskoy gidrofizicheskiy institut. Trudy, v. 35, 1966. Gidrofizicheskiye i gidrokhimicheskiye issledovaniya tropicheskoy zony Atlantiki (Hydrophysical and hydrochemical research in the tropical zone of the Atlantic), 31-山

TOPIC TAGS: heat balance, solar radiation, evaporation, research ship,

ABSTRACT: This paper is a reconnaissance survey of the heat balance observed along the route of the Russian research ship Mikhail Lomonosov during its 12th voyage from 15 October to 26 December 1962. The area of study lies between 55° N. Lat. and 22° 15 October to 26 December 1962. S. Lat. and between 50 E. Long. and 410 W. Long. Data are also compared with earlier voyages of the same ship. The elements considered are expressed in the formula for heat balance employed by the authors

 $B = q - \Delta q - q_s - q_e \pm q_c,$ 

where q is the amount of heat falling each second on a square meter of ocean surface Cardl/2

ACC NR AT6035085

as a result of direct and scattered solar radiation, extstyle q is the amount of heat lost per second from each square meter of ocean surface through reflection of incident solar radiation,  $q_r$  is the amount of heat lost each second per square meter through long-wave radiation,  $q_{\theta}$  is heat loss through evaporation, and  $q_{c}$  is heat loss through contact heat exchange with the surface layer of air. Analysis of daily fluctuations in heat balance of the ocean and consideration of the various components show that two components are fundamental in changing the heat balance of the Atlantic in the tropical belt -- the total radiation reaching the ocean surface from the sun and the loss of heat by evaporation at the ocean surface. The amount of radiation loss in this region ranges between rather narrow limits because of the thick layer of water vapor above the ocean. The authors plan to use the data from the 12th voyage in combination with a compilation of data from the other voyages to arrive at a clearer picture of details in changes of heat balance over the Atlantic. Orig. art. has: 4

SUBM DATE: none/

ORIG REF: 006

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013423

<u>I 31145-66</u> EWT(1)/FCC ACC NR: AP5007593 SOURCE CODE: UR/0362/65/001/001/0018/0026 AUTHOR: /Popov, S. M./(Deceased) Institute of the Physics of the Atmosphere, AN SSSR (Institut fisiki atmosfery 28 , TITIE: Some statistical characteristics of the vertical structure of temperature and humidity fields SOURCE: AN SSSR. Isvestiya. Fisika atmosfery i okeana, v. 1, no. 1, 1965, 18-26 TOPIC TAGS: autocorrelation function, atmospheric sounding, atmospheric humidity, ARSTRACT: Some statistical characteristics (autocorrelation and cross-correlation functions) of the vertical structure of temperature and humidity fields were obtained. The initial data were obtained from aerological soundings conducted at American weather stations at Hismarck (North Dakota) and ship "C" (50 45H 35 30W) during July and January at 0000 and 1200 hr Greenrich time. Lapse rate profiles are based on the conduction of figures for 10 standard levels (1000, 850, 700, 500, 400, 300, 250, 200, and 150 mb) and hundrity profiles on data for the first 5-6 levels. The initial observation data did not permit error analysis. Tables of lapse rate and hundrity profiles are presented; examples of correlation matrices, graphs and the correlation factor, and wortical variations in temperature and humidity are quoted for Bismarck. Orig. art. SUB CODE: 04, 12 / SUBM DATE: 16Jun64 / ORIG REF: 003 /

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, S.M., inch.

Analysis of methods for calculating the distortion of the front of an impulse wave subject to corona action. Trudy VNIII no.21: 70-81 '64. (MIRA 19:2)

POPOV, S.M. [deceased]

Some statistical characteristics of the vertical structure of the temperature and humidity fields. Izv. AN SSSR. Fiz. atm. i (MIRA 18:5) okeana 1 no.1:18-26 Ja 165.

1. Institut fiziki atmosfery AN SSSR.

MURAVLEVA, N.V., kand.tekhn.nauk; POPOV, S.M., inzh.

Measurement of the grounding resistance of power line poles without disconnecting the guard wire. Elek.sta. 33 no.11:68— (MIRA 15:12) 72 N '62. (Electric lines.—Overhead)

NATAPOV, B.S.; BARZIY, V.K.; OL'SHANETSKIY, V.Ye.; Prinimali uchastiye: FILONOV, V.A., inzh.; YUDIN, M.I., inzh.; IOFFE, M.M., inzh.; POPOV, S.M., inzh.; RYBALKO, G.I., inzh.; ODINETS, L.I., inzh.; SIGALKO, F.V., inzh.; TSIVIRKO, D.Ye.; VOLOSHCHUK, M.D., inzh.

Heat treatment of cold-rolled sheet metal. Stal' 22 no.2:163-(MIRA 15:2)

Zaporozhskiy mashinostroitel'nyy institut i zavod
 "Zaporozhstali".
 Zavod "Zaporozhstal" (for Filonov,
 Yudin, Ioffe, Popov, Hybalko, Odinets).
 Zaporozhskiy
 Yudin, Tsivirko, Voloshchuk).
 (Sheet steel—Heat treatment)

ARKHIPOV, Nikolay Nikolayevich; KARPACHEV, Pavel Spiridonovich:

MAYZEL', Maks Mikhaylovich, doktor tekhn. nauk, prof.;

PLEVAKO, Nikolay Alekseyevich; ZAYOUCHKOVSKIY, A.D., doktor tekhn. nauk, prof., retsenzent; ZOLOTOV, V.I., inzh., retsenzent; ZYBEN, V.P., doktor tekhn. nauk, retsenzent; KAPUSTIN, I.I., doktor tekhn. nauk, prof., retsenzent; KOZLOV, B.A., inzh., retsenzent; POFOV, S.M., doktor tekhn. nauk, prof., retsenzent; EPPEL', S.S., kand. tekhn.nauk, dots., retsenzent; MINAYEVA, T.M., red.; SHVETSOV, S.V., tekhn. red.

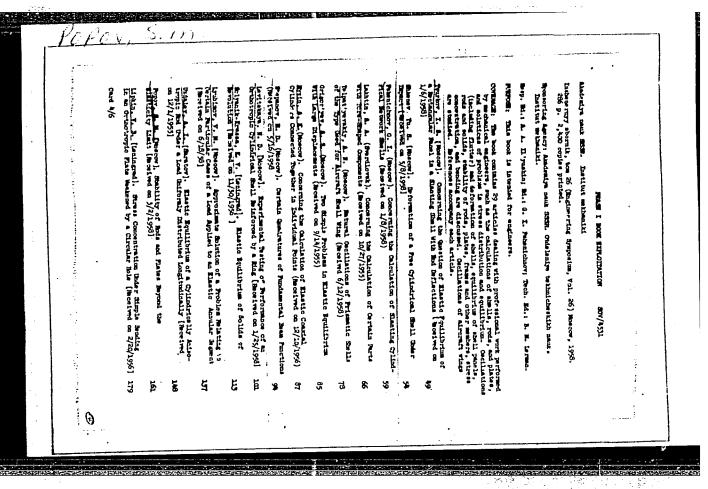
[Basic processes, machinery, and apparatus of light industry]
Osnovnye protsessy, mashiny i aparaty legkoi promyshlemosti.
[By] N.N.Arkhipov i dr. Moskva, Izd-vo nauchno-tekhn. lit-ry
[RSFSR, 1961. 491 p. (Industry)

Significance of the effective rediction in the heat belance of of the ocean. Izv. AN SSSR. Ser. peofiz. no. 2:281-293 F '61.

(NIRA 14:2)

(Ocean temperature)

S.M. (Frunze)  Approximate solution of problems in pressing shaped plates by the compression of a heated plastic mass. Inch. sbor. 29:37-54  (MIRA 13:10)				
160.	(Plasticity)	(Soil mechanic	s)	



APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013423

POPOV, S.M.

Effect of the shape of the shore line on the dynamic regimen of winds. Izv.AN SSSR.Ser.geofiz. no.7:1072-1076 J1 60.

(MIRA 13:7)

(Shore lines) (Winds)

82702

s/049/60/000/004/006/018 E073/E535

3.5000 **AUTHORS:** 

Vasil'yev, Yu.F. and Popov, S.M.

TITLE:

Temperature Field in the Neighbourhood of Sharp

Contoured Headlands (Based on Model Tests)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,

1960, No.4, pp.557-565

It has been known for a long time that storms intensify TEXT: when they hit peninsulas or even individual headlands which project into the sea. Even relatively small headlands have this property. The role of sharp contoured configurations of a coastline have been elucidated by V. V. Shuleykin (Ref.1), who showed that, particularly in the case of winter temperature contrasts between the conditions of the atmosphere above the sea and above the mainland (or over a large island), the coastline is almost accurately contoured by the isotherm passing along it, even if the contour if very complicated. This results in strongly nonuniform temperature and pressure fields, formation of increased temperature and pressure gradients against the headlands and reduced gradients in the region of the curved coastline. A more accurate theoretical

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CIA-RDP86-00513R0013423

APPROVED FOR RELEASE: Tuesday, August 01, 2000

5/049/60/000/004/006/018 E073/E535

Temperature Field in the Neighbourhood of Sharp Contoured Headlands

solution of this problem was published by Sekerzh-Zen'kovich (Ref.2); his work confirmed the correctness of the basic assumptions of the author of this paper and enabled calculation of the slight correction factors in particular cases of temperature-baric fields. Analytical solutions are inapplicable to complicated contours, whilst electrical analogues do not allow taking into consideration additional terms of the field equation, which in accordance with the theory is applicable to elliptically and parabolically curved It is, therefore, convenient to investigate the temperature field against sharp headlands by means of thermal analogues. Approximate analogues proved useful for the analysis of the phenomena which form the field: a) the active layer is considered as a film which is heated by the surface of the sea; b) this film conducts heat in all horizontal directions and is isotropic in this direction; c) the film will radiate into the neighbouring space the more heat the larger the difference between its temperature and the temperature which would exist in absence of

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82702 \$/049/60/000/004/006/018 E073/E535

Temperature Field in the Neighbourhood of Sharp Contoured Headlands (Based on Model Tests)

The calculations, carried out by V.V.Shuleykin ten years ago, have now been confirmed on the distribution of the average monthly air temperatures along a meridian, which would occur in absence of the influence of oceans. For conditions pertaining in the Central Antarctic, he obtained an average monthly temperature during the coldest winter months of -77°C and this corresponds with direct measurements carried out recently in the Antarctic. In this article experiments are described which were carried out by the authors on the propagation and loss of heat by means of The thermal analogues were realised by means of three heating systems which can also be used with advantage in other work. The experiments were carried out with a model of the Black Sea of the scale 1: 3 x 100. As a heat conducting and heat radiating film, an 0.5 mm thick copper sheet was used. Simple calculations showed that this satisfied approximately the requirements of analogy with the natural conditions. Inside the configuration of the "Sea" the heating of the sheet was effected as a result of chemical reactions. Fig.1 shows a sketch Card 3/5

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Temperature Field in the Neighbourhood of Sharp Contoured Headlands (Based on Model Tests)

of the layout of the equipment for simulating the temperature field in the neighbourhood of sharp headlands of the Black Sea. sketch; Fig. 2, shows the measured results of the temperature fields obtained in the analogue of the Black Sea. It can be seen that the isolines become much denser against sharp contoured headlands and that there is an appreciable stretching of the isolines in the neighbourhood of concave sections of the coastlines, fully in correspondence with the theory of V. V. Shuleykin. Experiments were also carried out on models of the Mediterranean. Fig. 3 shows a sketch of the equipment used for simulating the temperature fields against sharp protrusions into the Mediterranean. Fig.5 shows the results of measurements of the temperature field in the Mediterranean obtained in model tests and it is stated that these are in satisfactory agreement with naturally measured results. The number of winter storms with intensities exceeding 8 balls are nineteen times more frequent in the region of Sicily than in any other spot of the Mediterranean. This is easily explained on the

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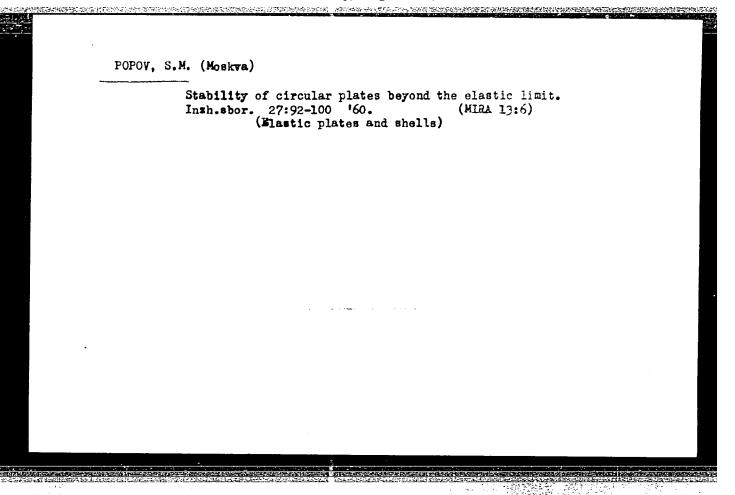
Temperature Field in the Neighbourhood of Sharp Contoured Headlands (Based on Model Tests)

basis of the theory of monsoon circulations. The authors also made comparative measurements of the temperatures along the coastline (Fig.6). Data obtained by Shuleykin in the Aegean Sea during hir expedition on the "Sedov" in December, 1957 showed that the theoretically derived formula on the relation between pressure and temperature:  $d\tau = -\frac{1}{11} dp, \qquad (10)$ 

where II = 1.6 for the pressure expressed in millibars, is in good agreement with measured results. The obtained results lead to the conclusion that in the neighbourhood of peninsulas and headlands jutting into the sea there is a sharp increase in the monsoon fields on both sides leading to an increase in the temperature and thus in the baric gradients and an intensification of the winds caused by these gradients, which in turn leads to an intensification of the storms. There are 7 figures and 5 Soviet references.

SUBMITTED: April 3, 1959

Card 5/5



S/124/60/000/006/032/039 A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 6, pp. 153-154, # 7869

AUTHOR:

The Stability of Rods and Plates Beyond the Elasticity Limit

TITLE:

Inzhenernyy sb., 1958, Vol. 26, pp. 161-178

Some formulae are proposed for determining the critical loads be-PERIODICAL: yond the elasticity limit for rectangular plates with various conditions of clamping the plate edges. In the special case, when the unloaded edges of the plate are free, formulae are obtained for rods with deformed cross section. It is supposed that the subcritical (free from moments) stress state is uniform: uniform compression is parallel to the one (arbitrary) of the edges, plain shear, and various combinations of these stress states. The calculation formulae were obtained on the basis of the strain theory in two variants, which differ from each other owing to considering or neglecting the unloading effect. The majority of results were obtained by the energy method; in individual cases, the integration of the differential equation of equilibrium was applied. The final

Card 1/2

CIA-RDP86-00513R0013423 APPROVED FOR RELEASE: Tuesday, August 01, 2000

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

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USSR/RR Transport
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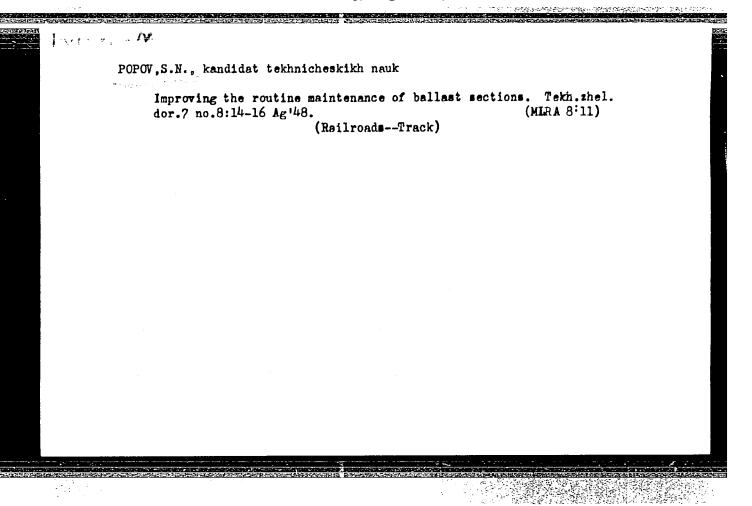
May 1947

"Book Shelf" 1 p

"Zh-d Transport" No 5

Summary of following books published by Transzhelezizdat in 1946 and 1947 including number of pages and price of each publication: "Organization of Freight Work in Railroad Transport. Stocks and Mechanization of Loading and Unloading Operations," G. P. Grinevich, "Analysis of the Balance of Railroads," A. N. Grigor'yev; "Mechanization of Loading and Unloading Operations at Freight Stations"; "Leading Methods of Work at Railroad Fuel Warehouses," T. A. Bugayets and G. V. Dubinin; and "Superfluous Material at Railroad Stations," S. N. Popov.

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POPOV, S. N.

Popov, S. N. - "The immediate tasks of regular readbed maintenance", Tekhnika zhel. dorog, 1948, No. 12, p. 1-3.

So: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7, 1949).

POPOV,S.H., kandidat tekhnicheskikh nauk

Allowable stresses on ballast, Trudy TSNII MFS no.97:353-385 '55.

(Ballast)

(MIRA 8:12)

SOV/124-57-9-10915

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 154 (USSR)

AUTHOR: CPopov, S. N.

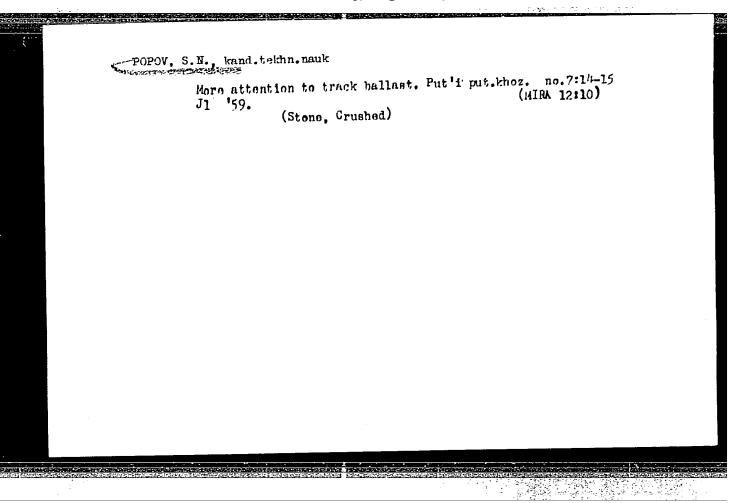
TITLE: On the Allowable Ballast Stresses (O dopuskayemykh napryazheniyakh

na ballast)

PERIODICAL: Tr. Vses. n.-i. in-ta zh.-d. transp., 1955, Nr 97, pp 353-385

ABSTRACT: Bibliographic entry

Card 1/1



SHAKHUNYANTS, Georgiy Mikhaylovich, doktor tekhn. nauk; AMELIN, S.V., prof., retsenzent; KONSTANTINOV, V.N., dots., retsenzent; SMIRNOV, M.P., retsenzent; YAKOVLEV, V.F., retsenzent; BOCHENKOV, M.S., kand.tekhn. nauk, retsenzent; BROMHERG, Ye.M., retsenzent; YERSHKOV, O.P., retsenzent; ZVEREV, B.N., retsenzent; ZOLOTARSKIY, A.F., retsenzent; IVASHCHENKO. G.I., retsenzent; LINEV, S.A., retsenzent; MARKAR'YAN, M.A., retsenzent; POPOV, V.V., retsenzent; POFOV, S.M., retsenzent; SECORREMNIKOV, V.V. retsenzent; SHAFRANOVSKIY, A.K., retsenzent; NOVITSKIY, G.I., inzh., retsenzent; VIKTOROV, I.I., kand.tekhn.nauk, retsenzent; VYSOTSKIY, A.F., kand.tekhn.nauk, retsenzent; SAATCHYAN, G.G., kand.tekhn.nauk, retsenzent; YAKOVLEVA, Ye.A., kand.tekhn.nauk, retsenzent; TITOV, V.P., kand.tekhn.nauk, retsenzent; GRUSHEVOY, N.G., inzh., red.; BROMBERG, Ye.M., kand.tekhn.nauk, red.; KHITROV, P.A., tekhn. red.

[Railroad tracks] Zheleznodorozhnyi put!. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 615 p.

(MIRA 14:12)

1. Kafedra "Zheleznodorozhnyy put'" Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Amelin, Konstantinov, Smirnov,
Yakovlev). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (for Bochenkov, Bromberg, Yershkov, Zverev, Zolotarskiy, Ivashchenko, Linev, Markar'yan, Popov, V.V., Popov, S.N.,
Serebrennikov, Shafranovskiy, Novitskiy).3.Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva(for Viktorov, Vysotskiy,
Saatchyan, Yakovleva, Titov)

(Railroads—Track) (Railroad engineering)

POPOV, S.N., kend.tekhn.nauk

Need for an improvement of the callast layer section. Fut' i pit. khoz. 6 no.5:26-31 '62. (MIRA 15:4)

(Ballast (Railroads))

FOFOV, C.R. kund, med. nauk dasluzhennyy vrach hOFSR

On transformation of bone structure related to functional stress. Vast. rent. 1 rad. 38 no.bli5-17 N.B '69. (MIRA 17:b)

i. 12 rentgeno-radiologicheskogo otdeleniya (zev.- S.N. Popov)
Tambovskoy oblastnoy bel'nibey.

BEGIDZHANOVA, A.P., kand. tekhn. nauk; KHARACH, G.M., inzh.; POPOV, S.N., inzh.

Investigating asbestos friction disks in tractor units. Trakt. i sel'khozmash. 33 no.10:12-14 0 '63.

(MIRA 17:1)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut (for Begidzhanova). 2. Institut mashino-vedeniya AN SSSR (for Kharach). 3. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut remonta i ekspluatatsii mashinno-traktornogo parka (for Popov).

POPOV, S.N.; GOLOVANCHIKOV, A.M.; GONCHAROV, G.I.; LYSENKO, T.P.; ORLOVA, I.A., inzh., red.; VOROB'YEVA, L.V., tekhn.red.

[New transverse profiles of the ballast section] Novye poperechnye profili ballastnoi prizmy. Moskva, Transzheldorizdat, 1963. 31 p. (MIRA 17:1)

BEGIDZHANOVA, A.P., kand.tekhn.nauk; KHARACH, G.M., inzh.; POPOV, S.N., inzh.

Results of testing friction members of tractors on the TIS-1 stand.

Trakt. i sel'khozmash. 33 no.1:7-11 Ja '63. (MIRA 16:3)

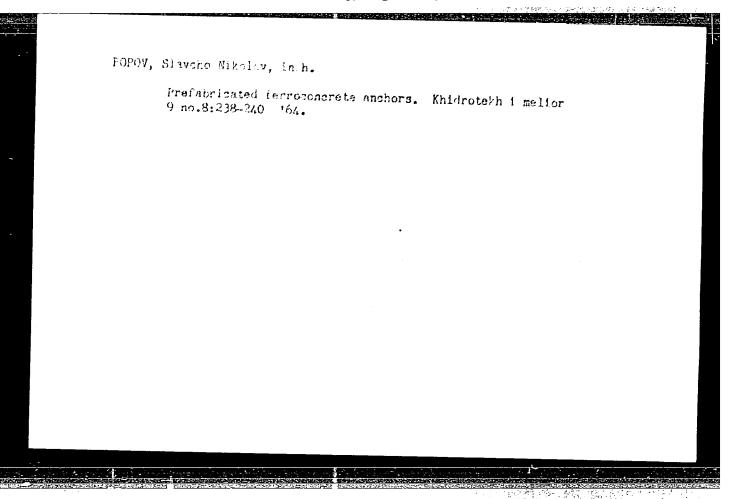
1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut (for Begidzhanova). 2. Institut mashinovedeniya AN SSSR (for Kharach).
3. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut remonta i ekspluatatsii mashinno-traktornogo parka (for Popov).

(Friction) (Tractors—Testing)

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2. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo khozyaystva (for Popov). 3. Institut mashinovedeniya
AN SSSR (for Kharach).

(Tractors) (Friction)

